

Case	Age	Sex	Duration	Location	Findings	Comments
1	20	M	10 days	Left eye	Small, dark, pigmented lesion	Benign
2	25	F	2 weeks	Right eye	Small, dark, pigmented lesion	Benign
3	30	M	3 weeks	Left eye	Small, dark, pigmented lesion	Benign
4	35	F	4 weeks	Right eye	Small, dark, pigmented lesion	Benign
5	40	M	5 weeks	Left eye	Small, dark, pigmented lesion	Benign
6	45	F	6 weeks	Right eye	Small, dark, pigmented lesion	Benign
7	50	M	7 weeks	Left eye	Small, dark, pigmented lesion	Benign
8	55	F	8 weeks	Right eye	Small, dark, pigmented lesion	Benign
9	60	M	9 weeks	Left eye	Small, dark, pigmented lesion	Benign
10	65	F	10 weeks	Right eye	Small, dark, pigmented lesion	Benign
11	70	M	11 weeks	Left eye	Small, dark, pigmented lesion	Benign
12	75	F	12 weeks	Right eye	Small, dark, pigmented lesion	Benign
13	80	M	13 weeks	Left eye	Small, dark, pigmented lesion	Benign
14	85	F	14 weeks	Right eye	Small, dark, pigmented lesion	Benign
15	90	M	15 weeks	Left eye	Small, dark, pigmented lesion	Benign

The present invention encompasses isolated nucleic acids containing transcriptional units which encode a signal sequence of one flavivirus and an immunogenic flavivirus antigen of a second flavivirus. The invention further encompasses a nucleic acid and protein vaccine and the use of the vaccine to immunize a subject against flavivirus infection. The invention also provides antigens encoded by nucleic acids of the invention, antibodies elicited in response to the antigens and use of the antigens and/or antibodies in detecting flavivirus or diagnosing flavivirus infection.